

APPLICANT:

WASHINGTON DEPT. of FISH & WILDLIFE 600 CAPITOL WAY N. OLYMPIA, WA 98501-1091

ADJACENT PROPERTY OWNER:

1. STOCKER

2/17/2015 1:26:43 PM

CITY OF SNOHOMISH 20 LINCOLN AVE SNOHOMISH, WA

LAT/LONG: 47° 54' 26"/122" 05' 20"

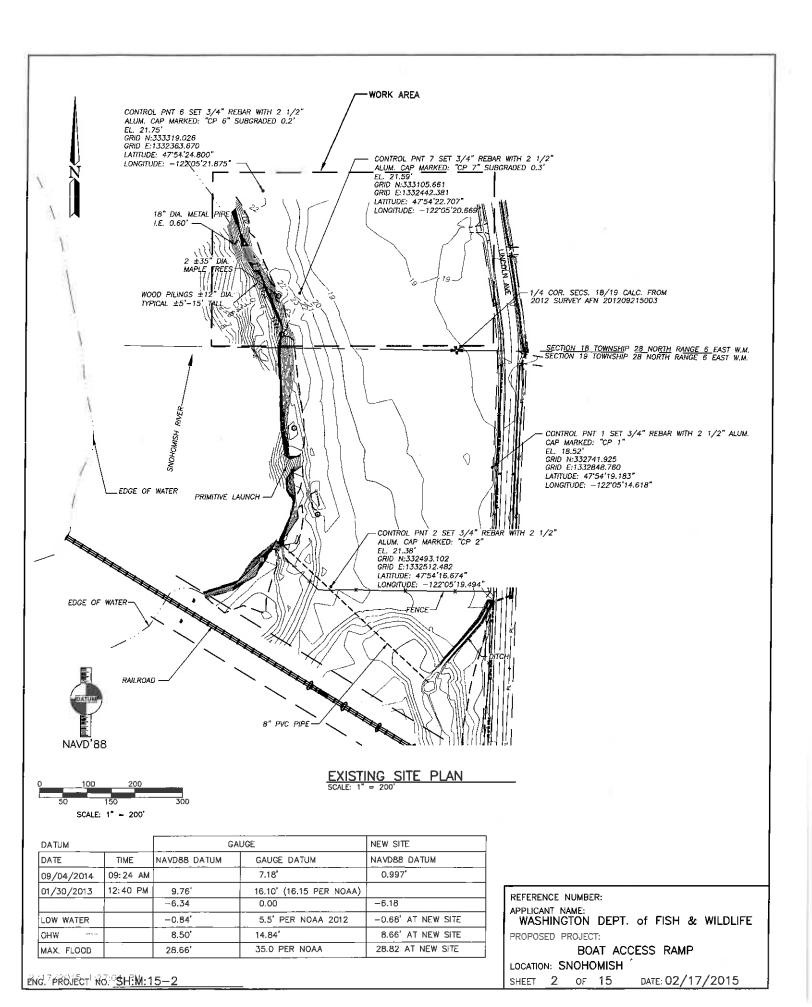
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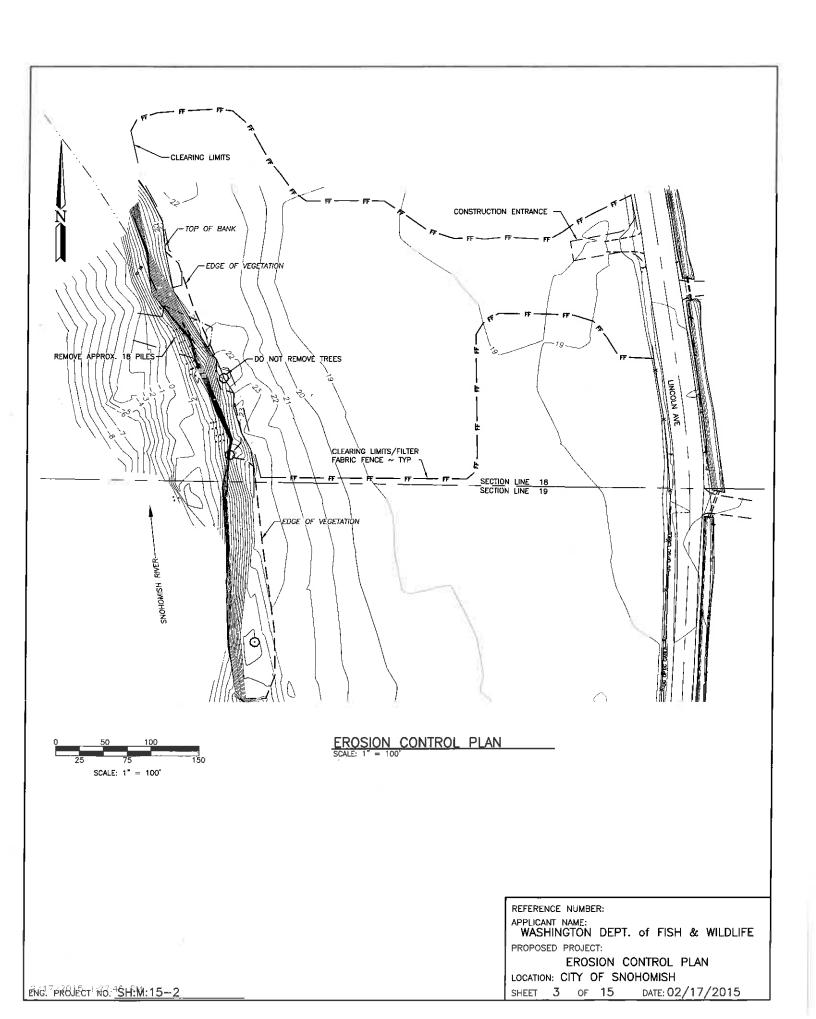
SHEET of 15 DATE: 02/17/2015

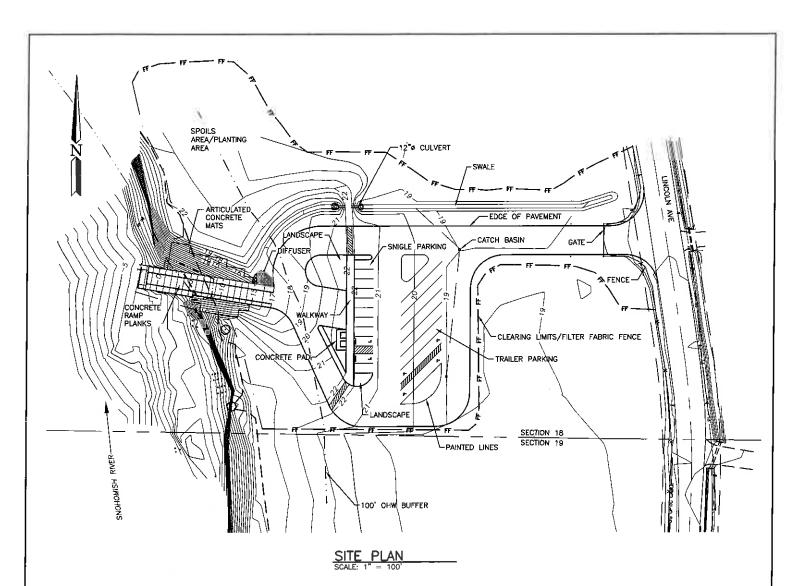
BUILD BOAT ACCESS RAMP AND PARKING AREA

IN: SNOHOMISH RIVER NEAR/AT: SNOHOMISH COUNTY: SNOHOMISH

STATE: WA







SNOHOMISH VOLUMES							
RAMP	AREA	DEPTH	CY CUT	CY FILL			
RAMP X	756		1,510	9	ABOVE OHW		
RAMP X	960		131	12	BELOW OHW		
PLANKS	756	0.5		14	ABOVE OHW		
PLANKS	960	0.5		18	BELOW OHW		
EC MAT	2700	0.5		50	ABOVE OHW		
EC MAT	1200	0.75		33	BELOW OHW		
PARKING	AREA	DEPTH	CY CUT	CY FILL			
SOD	42000	0.5	579				
PARKING X			540				
SWALE			115		400 LFx4' WIDE		
CONCRETE	1384	0.50		26			
ASPHALT	39241	0.25		363			
CSTC	39241	0.17		242	_ ·		
CSBC	39241	0.33		484			
BALLAST ROCK	44000	var,		800			
TOTALS			2,875	2,052			
SPOILS			823	ONSITE			
SPOILS			2,052	OFFSITE	(NO NET GAIN)		

REFERENCE NUMBER:

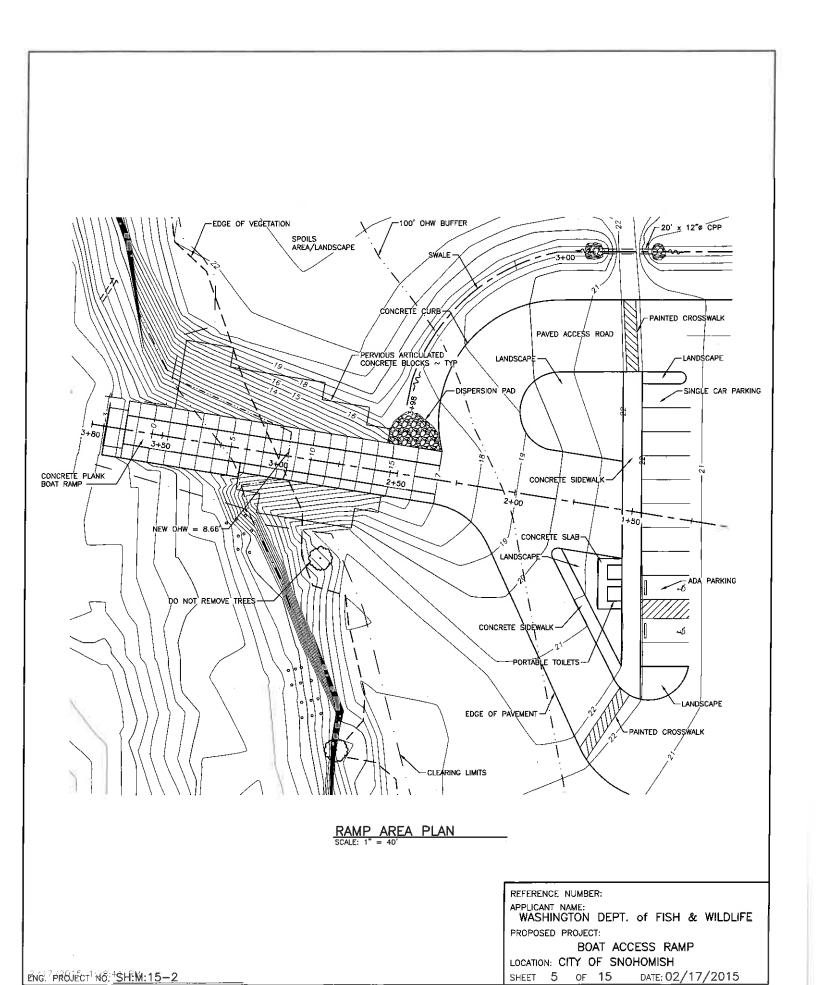
APPLICANT NAME: WASHINGTON DEPT. of FISH & WILDLIFE

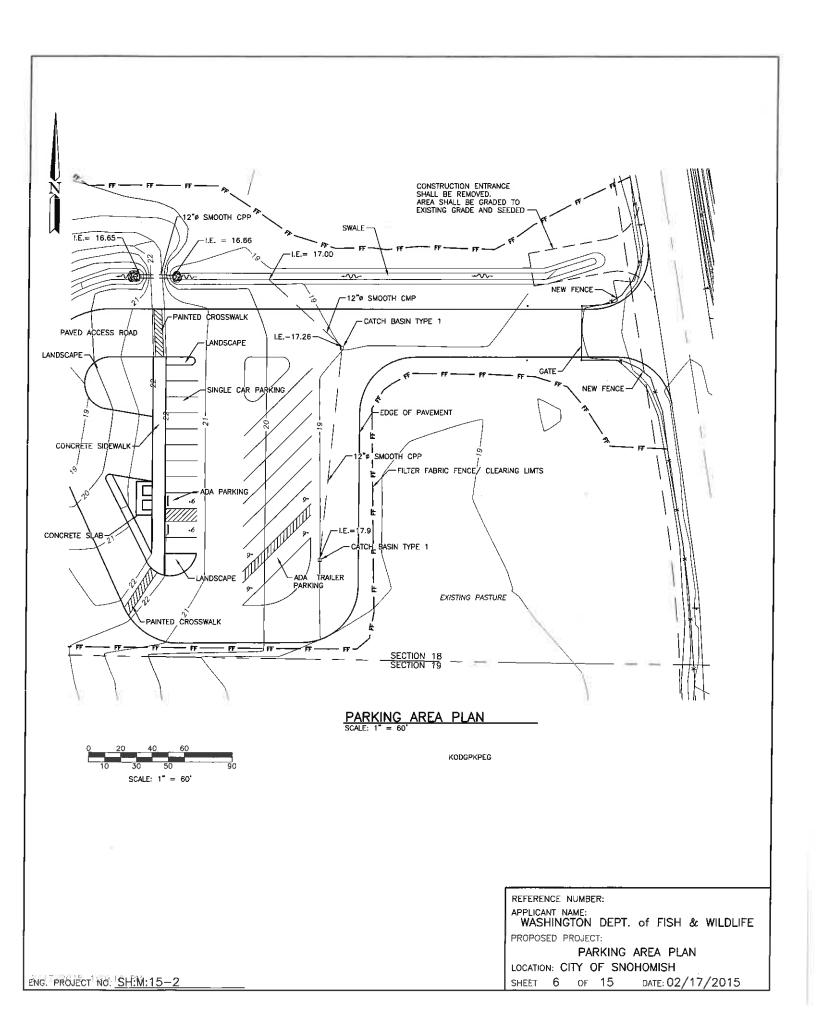
PROPOSED PROJECT:

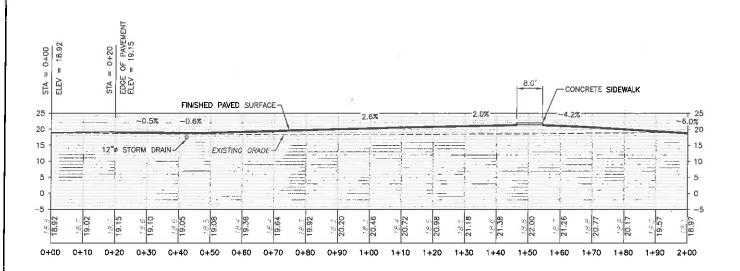
BOAT ACCESS RAMP LOCATION: CITY OF SNOHOMISH

SHEET 4 OF 15 DATE: 02/17/2015

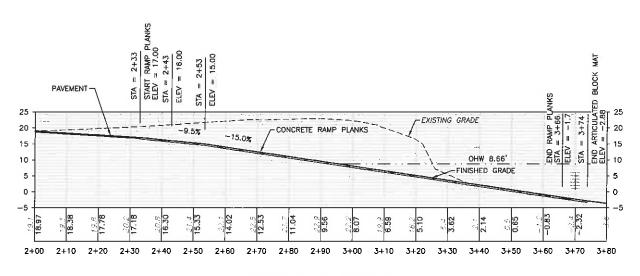
eng. PROJECT NO: \$H:M:15-2







# PARKING AREA PROFILE



BOAT RAMP PROFILE

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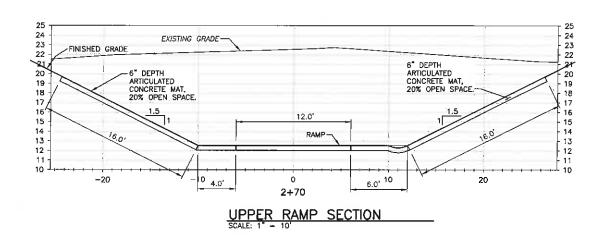
APPLICANT NAME:
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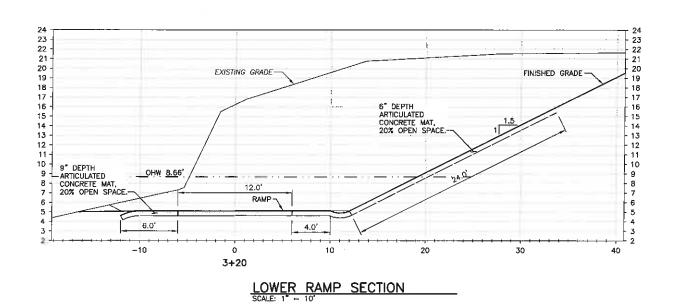
PROPOSED PROJECT:

BOAT ACCESS RAMP LOCATION: CITY OF SNOHOMISH

DATE: 02/17/2015 SHEET 7 of 15

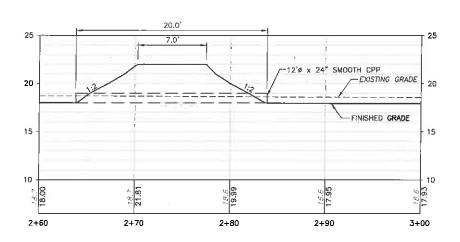
ENG. PROJECT NO. SHEM: 15-2





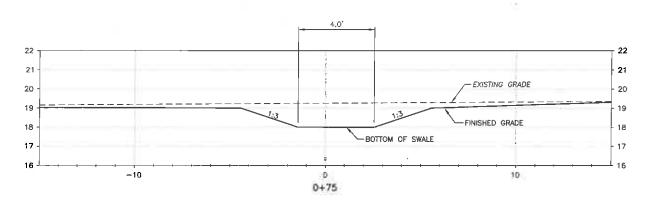
REFERENCE NUMBER:
APPLICANT NAME:
WASHINGTON DEPT. of FISH & WILDLIFE
PROPOSED PROJECT:
BOAT ACCESS RAMP
LOCATION: CITY OF SNOHOMISH
SHEET 8 OF 15 DATE: 02/17/2015

ENG. PROJECT NO. 25H:M: 15-2



# DRAINAGE SWALE PROFILE SCALE: 1" = 10'

NOTE: SWALE HAS A 0.5% DRAINAGE SLOPE AND IS APPROX. 400' LONG. SEED WITH D.O.E. MIX AND SEED DISTURBED AREAS.



## DRAINAGE SWALE SECTION

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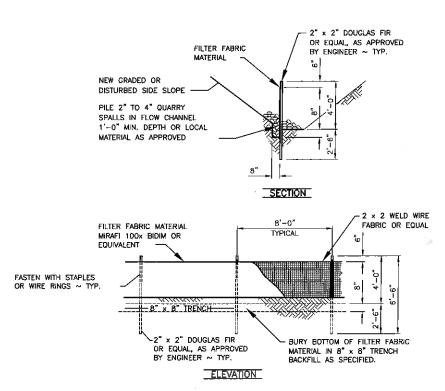
PROPOSED PROJECT:

BOAT ACCESS RAMP

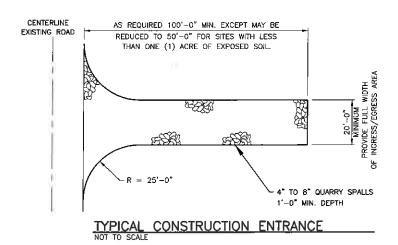
LOCATION: CITY OF SNOHOMISH

DATE: 02/17/2015 SHEET 9 OF 15

ENG. PROJECT NO SH: M: 15-2



### TYPICAL FILTER FABRIC FENCE



REFERENCE NUMBER:

APPLICANT NAME:
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PROPOSED PROJECT:

BOAT ACCESS RAMP
LOCATION: CITY OF SNOHOMISH
SHEET 10 OF 15 DATE: 02/17/2015

ENG. PROJECT NO. SH:M:15-2

### **EROSION CONTROL NOTES:**

#### A FILTER FABRIC:

- FILTER FABRIC SHALL BE A CONTINUOUS ROLL CUT TO LENGTH OF BARRIER AS NEEDED. IF JOINTS ARE NECESSARY FABRIC SHALL BE SPLICED TOGETHER ONLY AT SUPPORT POSTS WITH A MINIMUM OF SIX (6) INCH OVERLAP. BOTH ENDS SHALL BE SECURED AS REQUIRED.
- FILTER FABRIC SHALL BE INSTALLED TO FOLLOW CONTOURS, FENCE POSTS SHALL
  BE SPACED A MAXIMUM OF EIGHT (8) FEET APART UNLESS OTHERWISE SHOWN
  HEREIN. ALL POSTS SHALL BE DRIVEN INTO THE GROUND A MINIMUM OF 30
  INCHES
- A TRENCH SHALL BE EXCAVATED, ROUGHLY EIGHT (8) INCHES WIDE BY EIGHT (8)
  INCHES DEEP UPSLOPE AND ADJACENT TO THE POST TO ALLOW THE FILTER FABRIC
  TO BE BURIEL.
- 4. WHEN STANDARD STRENGTH FILTER FABRIC IS UTILIZED, A WIRE SINGLE SPACE MESH SUPPORT FENCE SHALL BE FASTENED TO THE UPSLOPE (OR UPSTREAM) SIDE OF THE POSTS USING ONE (1) INCH MINIMUM LENGTH WIRE STAPLES, TIE WIRE OR APPROVED HOG RINGS. ALL WIRE SUPPORT SHALL EXTEND INTO THE TRENCH A MINIMUM OF FOUR (4) INCHES AND SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE ORIGINAL GRADE.
- ALL FILTER FABRIC SHALL BE STAPLED OR WIRED TO SUPPORT FENCING AND A MINIMUM OF 20 INCHES OF FABRIC SHALL BE EXTENDED INTO THE TRENCH. FILTER FABRIC SHALL NOT BE STAPLED OR FASTENED TO EXISTING TREES OF STRUCTURES UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- IF HIGH STRENGTH FILTER FABRIC AND CLOSER SPACING ARE USED, THE WIRE SUPPORT FENCING MAY BE ELIMINATED. HIGH STRENGTH FABRIC SHALL BE STAPLED OR WIRED DIRECTLY TO POSTS AS REQUIRED BY THE ENGINEER.
- CUTOFF TRENCH SHALL BE BACKFILLED WITH 3/4 INCH MINIMUM DIAMETER WASHED GRAVEL OR OTHER SIMILAR SOURCE AS APPROVED BY THE ENGINEER.
- 8. FILTER FENCING SHALL BE INSTALLED WHERE SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER PRIOR TO COMMENCEMENT OF WORK. ALL FENCING SHALL BE INSPECTED DAILY DURING CONSTRUCTION AND AFTER EACH SIGNIFICANT RAINFALL EVENT UNTIL SITE HAS BEEN PERMANENTLY STABILIZED. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
- REMOVAL OF TRAPPED SEDIMENT SHALL BE PERFORMED WHEN AMOUNTS REACH APPROXIMATELY 1/3 HEIGHT OF THE FENCE. MATERIAL REMOVED FROM FENCE SHALL BE DISPOSED OF AT AN APPROVED OFFSITE LOCATION UNLESS OTHERWISE DIRECTED BY THE ENGINEER
- FILTER FENCING SHALL REMAIN IN-PLACE UNTIL SITE HAS BEEN REVEGETATED TO ORIGINAL CONDITION OR DIRECTED BY THE ENGINEER. CONTRACTOR SHALL BE RESPONSIBLE FOR FENCING REMOVAL FROM THE SITE WITHIN 30 DAYS OF SITE STABILIZATION.

### B CONSTRUCTION ENTRANCES:

- 11. QUARRY SPALLS SHALL BE IN-PLACE AND FUNCTIONAL BEFORE SITE PREPARATION ACTIVITIES COMMENCE. ANY DEBRIS TRACKING ONTO ADJACENT ROADWAYS SHALL BE CLEARED DAILY OR AS DIRECTED BY THE PROJECT ENGINEER. AT NO TIME SHALL ONLY WATER BE PLACED ON TRACKED ROADWAY, ROADWAY SHALL BE SWEPY AND/OR SCRAPED CLEAN BEFORE WATER IS UTILIZED.
- 12. ENTRANCE ROCK SHALL NOT BE REMOVED UNTIL SUCH TIME AS ALL ROADWAY STABILIZATION IS COMPLETE. QUARRY SPALLS REMOVED MAY BE UTILIZED IN OTHER SITE AREAS AS NEEDED. CONSULT ENGINEER FOR SPECIFIC APPROVALS.

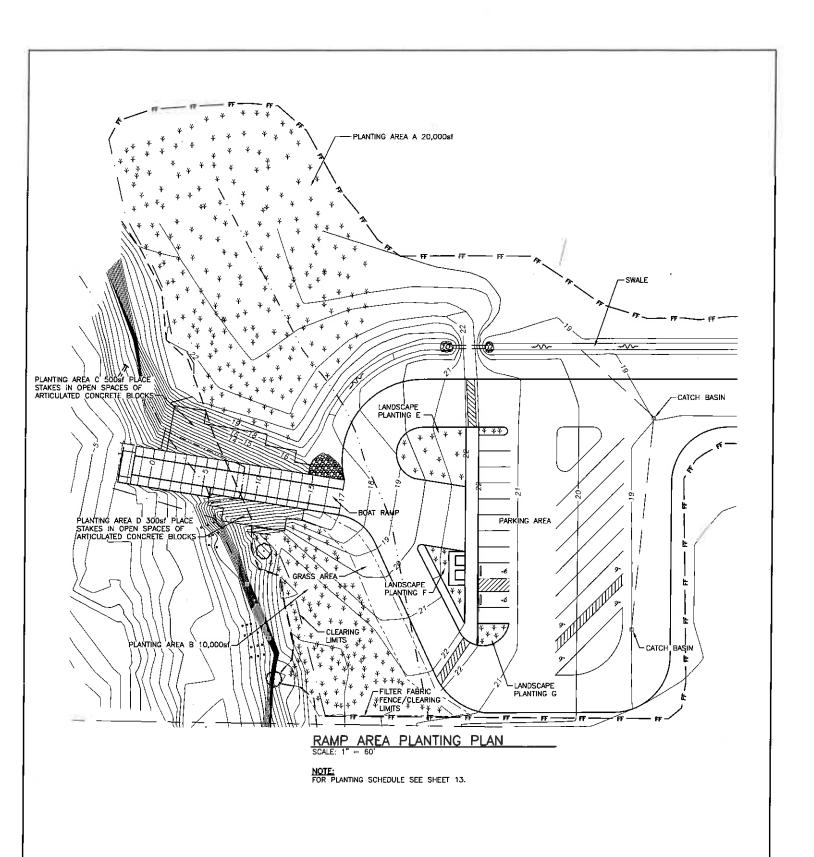
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BOAT ACCESS RAMP LOCATION: CITY OF SNOHOMISH

SHEET 11 OF 15 DATE: 02/17/2015



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PROPOSED PROJECT:

BOAT ACCESS RAMP LOCATION: CITY OF SNOHOMISH

SHEET 12 OF 15

DATE: 02/17/2015

AREA	SF	PLANTS	%	NAME	SIZE	SPACING
A	20000	1,250	25	NOOTKA ROSE	1 GAL	4' O.C.
			25	PACIFIC NINE BARK	1 GAL	4' O.C.
			25	RED OSER DOGWOOD	1 GAL -	4' O.C.
			25	SALMON BERRY	1 GAL	4' O.C.
		44		BIG LEAF MAPLE	2 GAL	
В	10,000	625	25	NOOTKA ROSE	1 GAL	4' O.C.
			25	PACIFIC NINE BARK	1 GAL	4' O.C.
			25	RED OSER DOGWOOD	1 GAL	4' O.C.
			25	SALMON BERRY	1 GAL	4" O.C.
		22 .		BIG LEAF MAPLE	2 GAL	
С	1700	425	50	SITKA WILLOW	STAKE	2° O.C.
			50	PACIFIC WILLOW	STAKE	2' O.C.
D	400	100	50	SITKA WILLOW	STAKE	2' O.C.
			50	PACIFIC WILLOW	STAKE	21 O.C.
E	600	67	40	OREGON GRAPE	1 GAL	3' O.C.
			40	SWORD FIRN	1 GAL	3' O.C.
			20	RED OSER DOGWOOD	1 GAL	3' O.C.
F	300	33	40	OREGON GRAPE	1 GAL	3' O.C.
			40	SWORD FIRN	1 GAL	3' O.C.
			20 -	RED OSER DOGWOOD	1 GAL	3' O.C.
G	300	33	40	OREGON GRAPE	1 GAL	3' O.C.
			40	SWORD FIRN .	1 GAL	3' O.C.
	ļ		20	KINIKINIK	1 GAL	3' O.C.
	ļ <u>.</u>					
TOTAL	33300	2,600				
PLANT SP	ECIES IN C	CLUSTERS				
MULCH A	L PLANT A	AREAS WITH 3"	MIN. BARK			
				AREAS ALONG SHOULDERS	 S.	1

SEED MI	Χ		
FOR DISTURBED	AR	ĒΑ	
PLANT	%	BY	WT.
BLUE WILDRYE		15	
TUFTED HAIRGRASS	15		
SAWBEAK SEDGE		15	
SLOUGH GRASS		15	
RED FESCUE		10	
SOFT RUSH		15	
MEADOW BARLEY		15	

SITE PLANTING LIST

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